Title: HamWAN - a Carrier Grade, MultiMegabit Network Backbone for Amateur EMCOMM and Experimentation
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The Puget Sound Data Ring, or HamWAN Project, has matured significantly since its introduction at the NWAPRS Summer Gathering last September. Bart Kus, AE7SJ introduced the concept for a multimegabit network, autonomous from the internet, yet providing analogous connectivity. The network is designed and implemented by hams for ham radio use in emergencies as well as for microwave experimentation. This network is extremely complementary to projects such as the HSMM / NW-MESH system in that it provides high-speed linking of patches of mesh as well as back-haul across the region or linking to other systems and resources.

Once implemented, HamWAN will provide a high speed, independent, and redundant backbone over which a multitude of existing and new amateur functionality can be implemented. Itís RF backbone literally places network access where Amateur resources need it the most ñ at the mountaintops.  Itís redundant ring design allows it to survive and serve if one or more sites go offline during a disaster.  The carrier grade design ensures that it will be capable of peering with ISPs on the global internet.  This will allow us to provide gateways to existing amateur applications such as EchoLink, IRLP, D-Star, packet, etc. Additionally, a wide range of regionally accessible EMCOMM resources such as ham paging, disaster messaging services, websites and other applications can be supported by a redundant RF backbone regionally instead of relying on existing infrastructure that we don't control.

This session is to introduce the system and will include a demonstration of the equipment and functionality. While the initial design is established and we are bringing our first sites live, the second purpose of HamWAN is to further the education and exploration of RF and digital technologies.  Since the amateur community is blessed with some of the greatest minds in technology, we want to have an interactive session to solicit your feedback on how to improve the system and to further identify

additional potential uses. We urge attendees to dream big as the system as envisioned has much more
capacity than most hams typically contemplate using.

For more information or to support this project
visit http://www.hamwan.org
https://www.hamwan.org/t/tiki-index.php

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